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ILLINOIS
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HISTORY
SURVEY

A Compendium of Information on
Tree Health Care

Including Diseases, Insects, Weeds, and Cultural Practices



UNIVERSITY OF ILLINOIS
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Special Publication 12
November 1991

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A Compendium of Information on
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INTRODUCTION

The trees found in our communities and urban areas are an invaluable multipurpose resource that contributes significantly to a livable environment. They confer economic, environmental, and social benefits and impart values that range from the purely aesthetic to the overtly economic. Trees enhance the landscape and surrounding architecture, stabilize soils, minimize erosion, reduce noise and glare, filter dust and air pollution, provide habitat for wildlife, increase property values, and impart a sense of well-being.

The American public is keenly aware that trees are important in everyday life and are essential to our long-term prosperity and well-being. Recent concerns about global warming, climate change, the greenhouse effect, biodiversity, energy usage, increased air pollution, food safety, and the use of chemicals for weed, pest, and disease control provide potent reminders of mankind's impact on the environment. More importantly, discussion of these concerns has heightened public recognition of the environmental and ecological importance of trees and the significant societal benefits to be gained from a prosperous and expanded forested landscape.

All too often urban tree-care practices fall short of what is possible. Those who strive to develop and maintain a robust tree-filled landscape are too few in number and too often must make do with inadequate resources. Frequently they must operate with some degree of crisis management, dealing with extremely unhealthy trees because inadequate attention was given to site and cultivar selection and to postplanting care and maintenance.

Tree-care professionals need to recognize the public's commitment to a cleaner environment. Practitioners must be able to protect the trees of urban America while making a minimal impact on the environment. The adaptation and implementation of integrated pest management (IPM) strategies for the care of trees is currently being evaluated by scientists at the Illinois Natural History Survey and at the University of Illinois Department of Horticulture. This

evaluation is funded by the National Arborist Association and the International Society of Arboriculture.

The IPM approach is a significant departure from the usual tactics of many tree care practitioners. IPM's attractiveness begins with its holistic perspective centered on environmental stability and integrity. It is a management-oriented approach that seeks to minimize crises, emergency interventions, and reliance on chemical controls. Instead, it emphasizes preventative, anticipatory care and maintenance, as well as the avoidance and control of pests by integrating multiple strategies. In short, IPM is the foundation on which a system of total tree health management is based.

Arboricultural practitioners, researchers, and managers must have ready access to technical information and information management resources if they are to succeed. With a larger tree population to care for and the growing use of innovative IPM practices, the industry will be increasingly dependent on the availability of information. Appropriately timed and environmentally acceptable intervention in disease, pest, and environmental problems places a considerable premium on accurate information. Provision for an integrated database is an essential component of the IPM initiative by the National Arborist Association and International Society of Arboriculture. Computerized databases can stimulate research by identifying knowledge gaps. If, however, existing information and the results of future research are not readily accessible in easily understood terms, they might as well not exist.

The existing wealth of practical experience and scientific reports about the application of IPM strategies for tree care is largely scattered and uncataloged, and it is not integrated into a format that is usable by practicing arborists. As a first step in developing an arborist-accessible information management system, we have compiled an extensive list of various documents and audio-visual aids that are available from state, federal, professional society, and private sources.

The following compendium of tree health management information sources was compiled from fact sheets, university publications, reference books, workshops, videos, slide sets, and computer programs submitted to us from 42 states and two Canadian provinces. Over 250 written requests and numerous phone calls were made in an attempt to locate tree health care information. Replies were received from university extension and publications offices, experiment stations, state agriculture and forestry departments, the U.S. Forest Service, arboreta, state arborist organizations, and private businesses.

This compendium includes information about diseases, insects, weeds, and wildlife problems of trees as well as cultural practices used to alleviate these problems. Some citations contain precise monitoring and trapping information for a specific pest, while others provide general biological information and control measures. A major goal was to include information that an arborist could use in his or her business as a reference or training guide. Research articles were excluded unless they contained specific recommendations for tree health care. Among the references are books and pertinent IPM journal articles. Also included are citations on pesticide safety, predator sources, parasite sources, growing degree days, resistance, selection, and pruning, to list only a few. The citations are alphabetized by author or agency or by title, if no author or agency is given.

The citations have been indexed by general category (diseases, insects, weeds, or cultural practices), by common name of the organism, by host plant, by host group (deciduous trees, shade trees, fruit trees, conifers, evergreens, or shrubs), and by the state or province and region. For convenience, mite information was grouped under the general category *insect*. Specific mite information is indexed as *mite*. Many of the lists received provided only the title, and some creative judgment was used to index the citation from the limited information provided.

The subject index was primarily designed to be used as part of a computer search, so index terms were kept to a minimum. For example, a fact sheet on fruit tree borers is indexed under *insect*, *borer*, *peach*, *apple*, *fruit trees*, *New York*, and *Northeast*. When looking for information on

peach tree borer, compare the citation numbers shown in the index for *peach* and *borer* as well as for *peach tree borer* to determine which citations to examine. When a fact sheet was very specific, it was indexed under the organism. For example, a fact sheet on diploia tip blight is indexed under *disease*, *diploia tip blight*, *pine*, *conifer*, *Pennsylvania*, and *mid-Atlantic*.

There are more than 100 citations indexed *IPM*. These are publications that contain information involving monitoring, detection, or timing of pest populations. In preparing this compendium, it became clear that there are few IPM resources for ornamentals. There are more references on IPM for commercial Christmas tree, fruit, and nut production. Arborists can use this information by adapting it to their situation. There are numerous references on transplantation, pruning, selection, and life cycles of specific pests. By obtaining this information from several sources, an arborist should be able to put together a training package.

Each citation contains the following information, if known: author, title, report identification number or journal issue, organization (extension service, department of agriculture, arboretum), and the address to write for the publication or video. Cost and shipping information is provided when possible. Listed costs are for single copies from that source. Several university publications offices give discounts or reduce shipping costs for orders of more than one copy. When ordering a publication, include your name, address, and phone number, as well as a check or money order when requested. If you wish to purchase or rent videos and slide sets, a phone number is provided so that you may call to determine availability. If there are questions, users are urged to contact the office or department that distributes the publication.

Citations indexed under *reference* are usually reference books and have an address where they can be purchased. Reference books can also be obtained directly from the publisher, local bookstore, or your local library. Books not found in your library can often be obtained through inter-library loan.

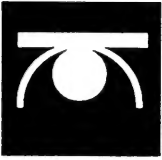
One word of caution: in preparing this compendium, no attempt was made to review all 1,982 citations for accuracy, quality, or usefulness to arborists. Also, this compendium is not complete; several departments chose not to submit lists because they were in

the process of rewriting them. Several publications contain out-of-date information regarding pesticides, but the information about the timing and biology of the pest should still be valid. This compendium was developed as a source of information for arborists who wish to begin implementing their tree health care/integrated pest management program.

Disclaimer

Reference to any products and services listed in this compendium is not intended to be an endorsement to the exclusion of others that may have similar uses. Any person using products or practices listed in this publication assumes full responsibility for their use in accordance with directions of the manufacturer.

When using pest control information from a state other than the one in which you reside, be aware that different states have different regulations for using both general pesticides and restricted pesticides that require permits.



ALPHABETICAL LIST OF
INFORMATION SOURCES

1. **ABCs of Landscape Pruning.** 1989. Videotape, VHS, 40 min. Available from: The Idea Bank, 2716 Exeter Place, Santa Barbara, CA 93105. Phone: 800-621-1136. \$149. Checks payable to The Idea Bank.
2. **Advanced Pruning.** Videotape, VHS, 25 min. Available from: American Nurseryman, Attn: Book Dept., 111 N. Canal St., Chicago, IL 60606-7203. Phone: 800-621-5727. \$75 plus \$3.50 shipping and handling.
3. Alabama Agricultural Experiment Station. **Mulches for the Landscape.** 1984. Circular ANR-385. 2 pp. (Home Grounds Horticulture). Available from: Department of Research Information, Alabama Agricultural Experiment Station, Auburn University, Auburn, AL 36849.
4. Alabama Agricultural Experiment Station. **Production and Marketing of Woody Ornamentals in Alabama.** 1982. Bulletin 546. (Horticultural Crops). Available from: (See citation 3).
5. Alabama Cooperative Extension Service. **1988 Alabama Pesticide Handbook.** ANR-500. (IPM). Available from: Director, Information Service, ACES, Auburn University, Auburn, AL 36849-5612. \$12.
6. Alabama Cooperative Extension Service. **Care and Maintenance of Ornamentals.** 1988. ANR-162. 11 pp. (Horticulture). Available from: (See citation 5).
7. Alabama Cooperative Extension Service. **Christmas Tree Production in Alabama.** ANR-070. (Forestry). Available from: (See citation 5).
8. Alabama Cooperative Extension Service. **Commercial Pesticide Applicators Study Manual/Forest Pest.** ANR-437. (Entomology). Available from: (See citation 5). \$5.
9. Alabama Cooperative Extension Service. **Controlling Spider Mites on Ornamentals.** ANR-192. (Entomology). Available from: (See citation 5).
10. Alabama Cooperative Extension Service. **Controlling Turfgrass Diseases in Alabama.** ANR-91. (Plant Pathology). Available from: (See citation 5).
11. Alabama Cooperative Extension Service. **Disease and Insect Control for Roses.** ANR-401. (Horticulture). Available from: (See citation 5).
12. Alabama Cooperative Extension Service. **Diseases of Roses and Their Control.** ANR-505. (Plant Pathology). Available from: (See citation 5).
13. Alabama Cooperative Extension Service. **Establishing Woody Ornamentals.** ANR-410. (Horticulture). Available from: (See citation 5).
14. Alabama Cooperative Extension Service. **IPM/Apples.** ANR-11. (IPM). Available from: (See citation 5).
15. Alabama Cooperative Extension Service. **IPM/Christmas Trees.** ANR-453. (IPM). Available from: (See citation 5).
16. Alabama Cooperative Extension Service. **IPM/Pecans.** ANR-27. (IPM). Available from: (See citation 5).
17. Alabama Cooperative Extension Service. **Landscaping with Fruit and Nut Plants.** ANR-69. (Horticulture). Available from: (See citation 5).
18. Alabama Cooperative Extension Service. **Liming & Fertilizing Ornamental Plants.** ANR-388. (Horticulture). Available from: (See citation 5).
19. Alabama Cooperative Extension Service. **Practices in Field Shade Tree Production.** ANR-235. (Horticulture). Available from: (See citation 5).

20. Alabama Cooperative Extension Service. **Rust Diseases of Juniper, Apple & Crabapple.** 1986. ANR-468. 3 pp. (Plant Pathology). Available from: Head, Information Service, ACES, Auburn University, Auburn, AL 36849-5612.
21. Alabama Power Company. **Trees for Alabama Homes.** 18 pp. Information from: Sheffer, K., Alabama Cooperative Extension Service, Auburn University, Auburn, AL 36849-5612.
22. Aldwinckle, H.S., Jones, A.L., eds. **Compendium of Apple and Pear Diseases.** 1990. Available from: APS Press, 3340 Pilot Knob Road, St. Paul, MN 55121. \$20. Checks payable to APS.
23. Alexander, S.A. **Pitch Canker of Pine.** 1979. PMG-501. 3 pp. (Forest Tree Disease Management). Virginia Cooperative Extension Service. Available from: Department of Plant Pathology, Physiology, and Weed Science, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061-0331.
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25. Alexander, S.A., Skelly, J.M. **Brown Spot Needle Blight of Conifers.** 1977. 3 pp. (Forest Tree Diseases of Virginia). Available from: (See citation 23).
26. Alexander, S.A., Skelly, J.M. **Needlecast of Conifers.** 1977. 3 pp. (Forest Tree Diseases of Virginia). Virginia Cooperative Extension Service. Available from: (See citation 23).
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28. Alfieri, S.A. **Brown Leaf Necrosis of Mahonia.** 1970. Pathology Circular 92. 2 pp. Available from: (See citation 27).
29. Alfieri, S.A. **Cercospora Leaf Spot of Pomegranate.** 1978. Pathology Circular 194. 2 pp. Available from: (See citation 27).
30. Alfieri, S.A. **Cercospora Leaf Spot of Honeysuckle.** 1981. Pathology Circular 222. 2 pp. Available from: (See citation 27).
31. Alfieri, S.A. **Cercospora Leaf Spot of the Chinese Tallow Tree.** 1982. Pathology Circular 232. 2 pp. Available from: (See citation 27).
32. Alfieri, S.A. **Cercospora Leaf Spot of Climbing Fig.** 1985. Pathology Circular 274. 2 pp. Available from: (See citation 27).
33. Alfieri, S.A. **Entomosporium Leaf Spot of Loquat.** 1969. Pathology Circular 82. 2 pp. Available from: (See citation 27).
34. Alfieri, S.A. **Fig Mosaic.** 1967. Pathology Circular 64. 2 pp. Available from: (See citation 27).
35. Alfieri, S.A. **Flower Blight of Camellia.** 1971. Pathology Circular 108. 1 p. Available from: (See citation 27).
36. Alfieri, S.A. **The Green Scurf Disease.** 1969. Pathology Circular 78. 2 pp. Available from: (See citation 27).
37. Alfieri, S.A. **Heart, Butt, and Root Rot of Redbud.** 1977. Pathology Circular 181. 2 pp. Available from: (See citation 27).
38. Alfieri, S.A. **Lichens.** 1976. Pathology Circular 165. 2 pp. Available from: (See citation 27).
39. Alfieri, S.A. **Limb Blight Disease Caused by Corticium.** 1968. Pathology Circular 71. 2 pp. Available from: (See citation 27).
40. Alfieri, S.A. **Mimosa Wilt.** 1969. Pathology Circular 85. 2 pp. Available from: (See citation 27).
41. Alfieri, S.A. **Peach Rosette.** 1967. Pathology Circular 58. 2 pp. Available from: (See citation 27).
42. Alfieri, S.A. **Pseudocercospora Leaf Spot of Yellow or Primrose Jasmine.** 1983. Pathology Circular 246. 2 pp. Available from: (See citation 27).
43. Alfieri, S.A. **Spot Anthracnose of Flowering Dogwood.** 1970. Pathology Circular 98. 2 pp. Available from: (See citation 27).
44. Alfieri, S.A. **Stem Bleeding Disease of Coconut Palm.** 1967. Pathology Circular 53. 2 p. Available from: (See citation 27).
45. Alfieri, S.A. **Tar Spot of Maple.** 1977. Pathology Circular 183. 2 pp. Available from: (See citation 27).
46. Alfieri, S.A., Campbell, M.L., El-Gholl, N.E. **Necriella, a Pathogen of Ficus.** 1986. Pathology Circular 279. 2 pp. Available from: (See citation 27).
47. Alfieri, S.A., Graham, A.E. **Cylindrocladium Leaf Spot of Magnolia.** 1972. Pathology Circular 122. 2 pp. Available from: (See citation 27).
48. Alfieri, S.A., McRitchie, J.J. **Phyllosticta Leaf Spot of Southern Magnolia.** 1976. Pathology Circular 167. 2 pp. Available from: (See citation 27).
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84. Arkansas Cooperative Extension. **Culture and Care of Pecan Trees in Arkansas.** EL552. (Horticulture). Available from: (See citation 82).
85. Arkansas Cooperative Extension. **Dutch Elm Disease.** EL467. (Plant Pathology). Available from: (See citation 82).
86. Arkansas Cooperative Extension. **Establishing Pecan Trees in Arkansas.** EL551. (Horticulture). Available from: (See citation 82).
87. Arkansas Cooperative Extension. **Fire Ant Control in Arkansas.** EL543. (Entomology). Available from: (See citation 82).
88. Arkansas Cooperative Extension. **Growing Christmas Trees in Arkansas.** EL356. (Forestry). Available from: (See citation 82).
89. Arkansas Cooperative Extension. **Growing Azaleas.** EL660. (Horticulture). Available from: (See citation 82).
90. Arkansas Cooperative Extension. **Home Fruit Orchard Sprays.** EL351. (Horticulture). Available from: (See citation 82).
91. Arkansas Cooperative Extension. **Insect Control for Commercial Christmas Tree Production.** EL656. (Entomology). Available from: (See citation 82).
92. Arkansas Cooperative Extension. **Jarring Peach Trees to Check for Insects.** EL289. (Horticulture). Available from: (See citation 82).
93. Arkansas Cooperative Extension. **Making an Insect Collection.** MP83. (Entomology). Available from: (See citation 82).
94. Arkansas Cooperative Extension. **Peach Production in Arkansas.** EC449. (Horticulture). Available from: (See citation 82).
95. Arkansas Cooperative Extension. **Pest Control for Trees and Shrubs.** EC526. (Horticulture). Available from: (See citation 82).
96. Arkansas Cooperative Extension. **Protect Ornamental Pine Planting from Insects.** EL322. (Horticulture). Available from: (See citation 82).
97. Arkansas Cooperative Extension. **Pruning Fruit Trees.** EL439. (Horticulture). Available from: (See citation 82).
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